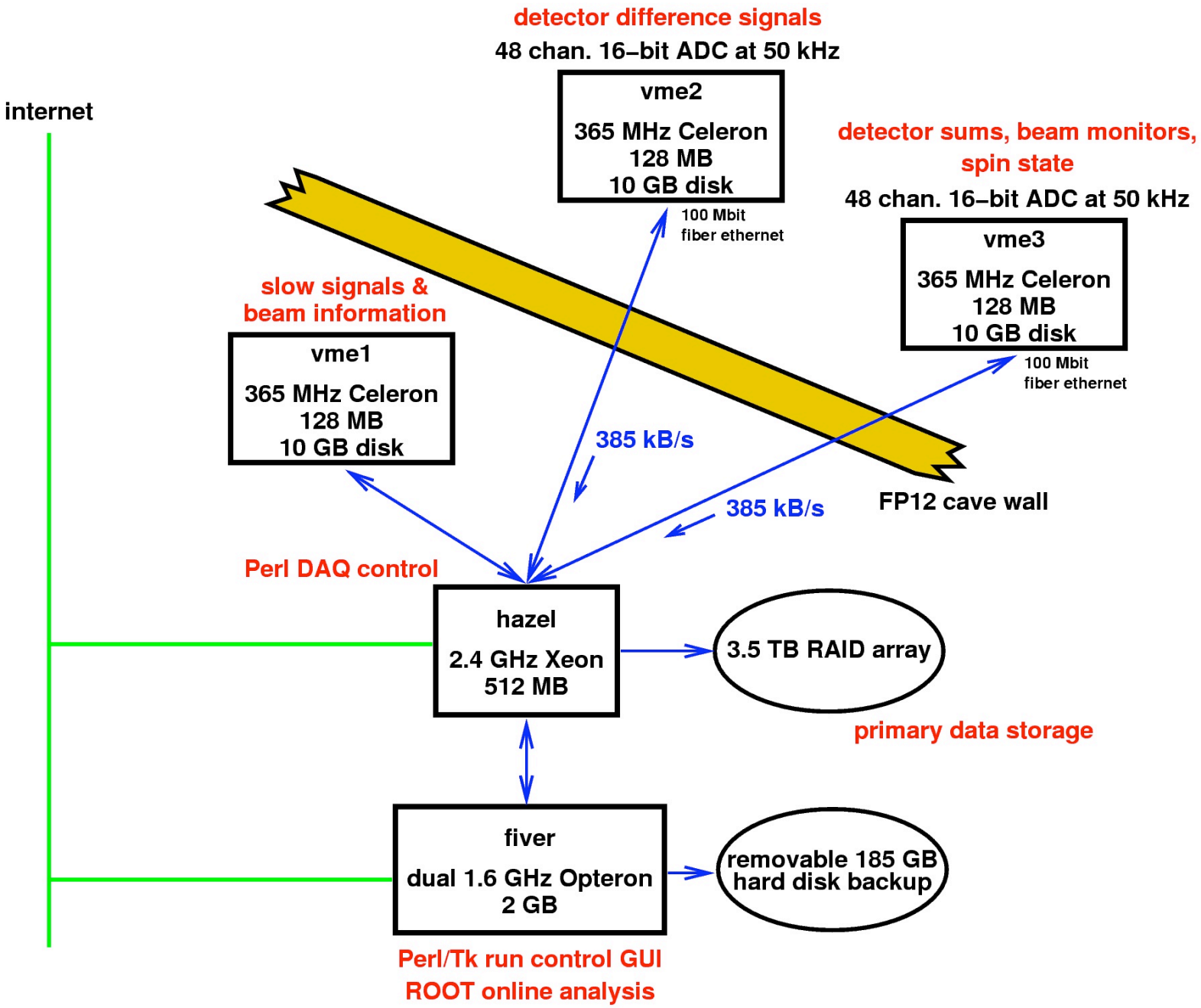
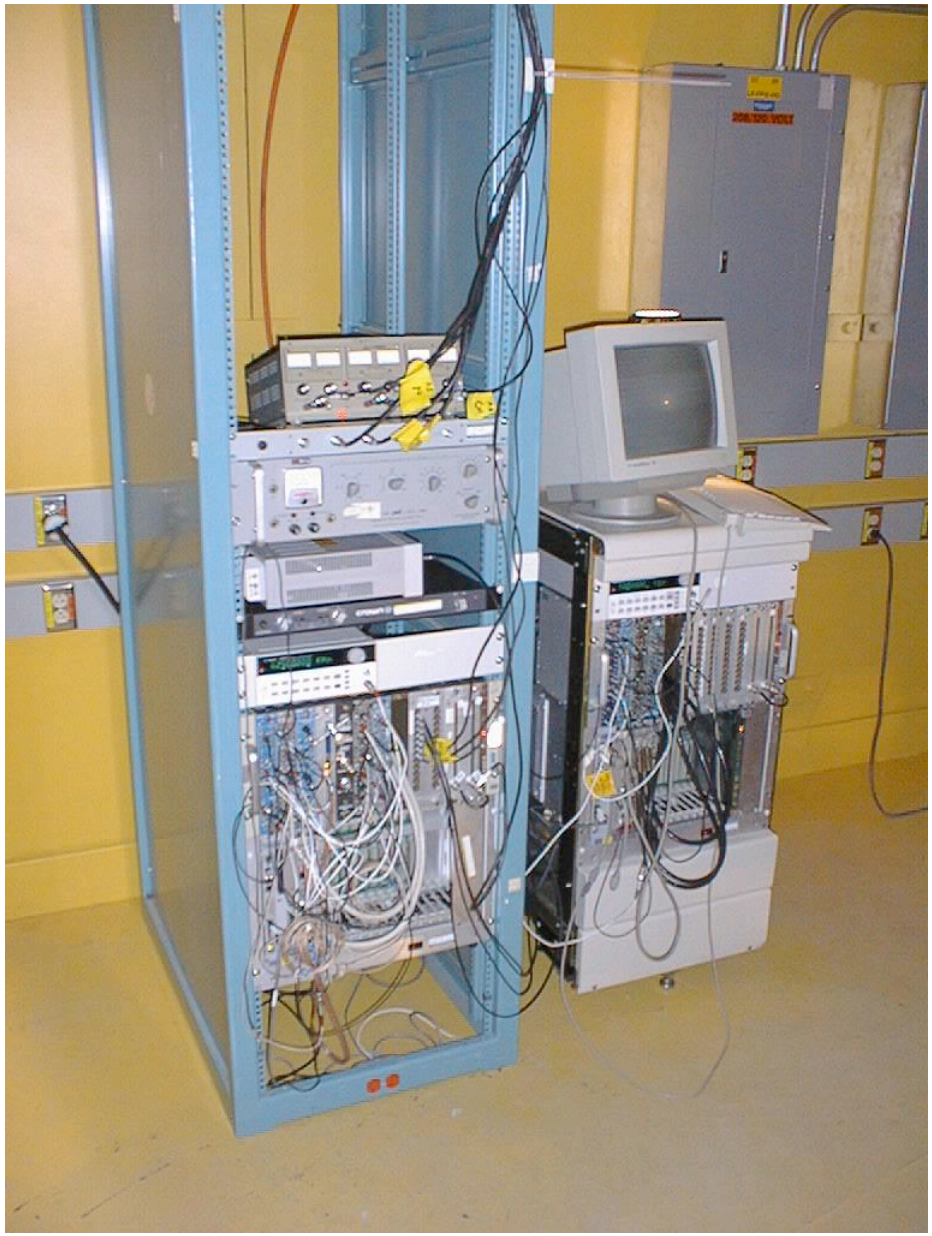
DAQ Performance.

Greg Mitchell


detector difference signals
48 chan. 16–bit ADC at 50 kHz
vme2
365 MHz Celeron
128 MB
10 GB disk
100 Mbit
fiber ethernet
internet
detector sums, beam monitors,
spin state
48 chan. 16–bit ADC at 50 kHz
vme3
365 MHz Celeron
128 MB
10 GB disk
100 Mbit
fiber ethernet
slow signals &
beam information
vme1
365 MHz Celeron
128 MB
10 GB disk
385 kB/s
385 kB/s
FP12 cave wall
Perl DAQ control
hazel
2.4 GHz Xeon
512 MB
3.5 TB RAID array
primary data storage
fiver
dual 1.6 GHz Opteron
2 GB
removable 185 GB
hard disk backup
Perl/Tk run control GUI
ROOT online analysis



PDG-02-071

```
hazel.lanl.gov:~gmitch/analysis $ df -h
Filesystem            Size  Used Avail Use% Mounted on
/dev/sda8             981M  258M  674M  28% /
/dev/sda1             981M   47M  885M   5% /boot
/dev/md0               34G  5.7G   27G  18% /home
/dev/sda2             2.0G  377M  1.5G  21% /opt
none                  251M     0  251M   0% /dev/shm
/dev/sda6             2.0G   33M  1.8G   2% /tmp
/dev/sda9              23G  4.0G   18G  19% /usr
/dev/sda3             2.0G   33M  1.8G   2% /usr/local
/dev/sda5             2.0G  561M  1.3G  31% /var
/dev/sdd1             2.0T  1.2T  713G  63% /data0
/dev/sde1             1.2T  107G  1.1T  10% /data1
```

We took over 1 terabyte of data.

Some system crashes. (automatic pager worked for some)

ELOG entries automatically generated per run, but ELOG essentially wasn't used as a logbook by shift takers.